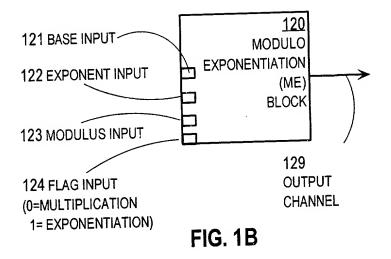


FIG. 1A



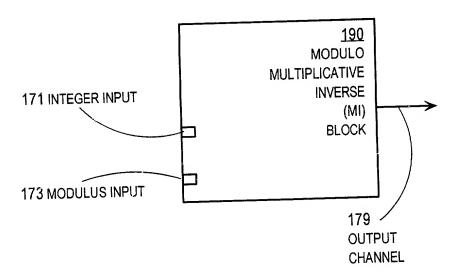
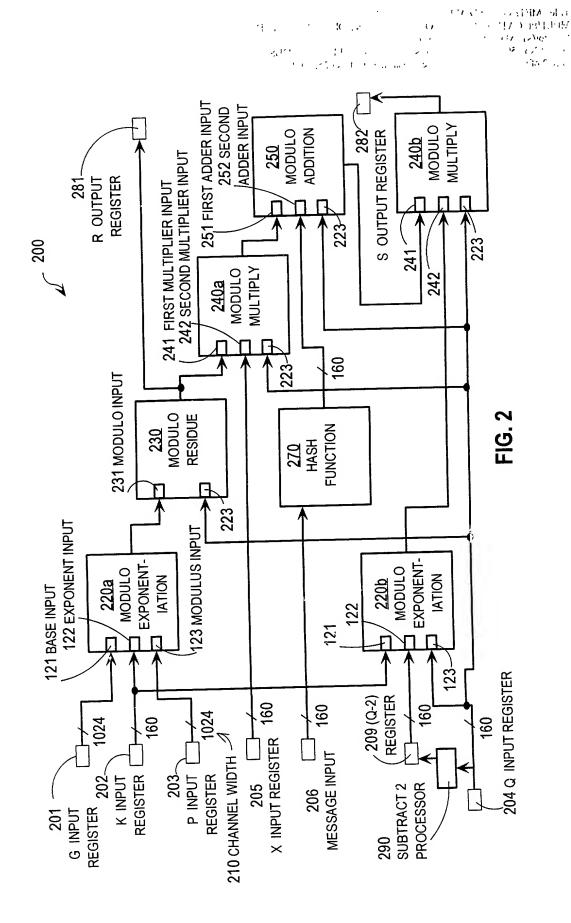
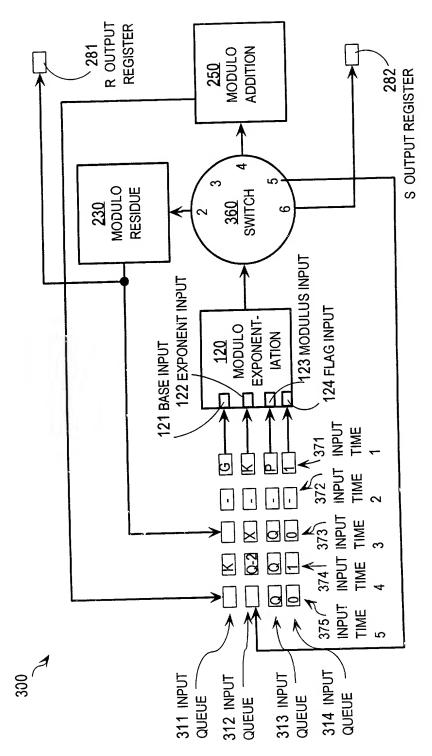


FIG. 1C





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FIG. 3

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FIG. 4

400 410 DETERMINE A FIRST SET OF COMPUTATIONS INVOLVING MULTIPLICATIVE INVERSES MODULO MODULI M1, M2... 420 SUBSTITUTE A SECOND SET OF COMPUTATIONS INVOLVING MULTIPLICATIVE INVERSES MODULO PRIME MODULI P1, P2 . . . 430 DETERMINE EACH COMPUTATION OF MULTIPLICATIVE INVERSE FOR AN INTEGER A MODULO A PRIME MODULUS P IN THE SECOND SET 440 SEND INTEGER A TO BASE INPUT OF MODULO EXPONENTIATION (ME) BLOCK 450 SEND MODULUS P TO MODULUS INPUT OF ME BLOCK 460 SEND QUANTITY (P-2) TO EXPONENT INPUT OF ME BLOCK 470 SEND FLAG INDICATING EXPONENT:ATION OUTPUT <u>480</u> DETERMINE EACH COMPUTATION OF MULTIPLICATION FOR INTEGERS B AND C MODULO A MODULUS M IN THE SECOND SET 490 SEND INTEGERS B, C, M TO ME BLOCK

WITH FLAG INDICATING MULTIPLICATION OUTPUT

FIG. 5

